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Inspection of Commercial Fertilizers — 1985

By Lester Hankin



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INSPECTION OF COMMERCIAL FERTILIZERS--1985

by Lester Hankin

During 1985, 316 official samples of fertilizer were collected by inspectors of the Connecticut Department of Agriculture and examined for authenticity of guaranteed analysis that is stated on the label and compliance with State Regulations. Other fertilizer samples were tested for farmers and Station research but are not included in this Bulletin. Although all guaranteed analyses are examined, only the results for the major plant nutrients of nitrogen, phosphoric acid, and potash are presented in this Bulletin.

Table 1 shows individual samples from 59 manufacturers. The numbers preceding the brand name are the guaranteed analyses. For example, 10-10-10, indicates the guaranteed percentage for nitrogen (N), phosphoric acid (P₂O₅), and potash (K₂O), in that order. The actual content is then shown, with deficiencies indicated by a dash following the amount found. Table 2 summarizes for each manufacturer the number of guarantees examined for each plant nutrient, the percentage of the samples not meeting their guarantee, and the average percentage of guarantee found. Table 3 shows the tonnage of the various grades of mixed fertilizer sold in Connecticut. Only grades prepared by at least three manufacturers are shown; other grades are placed in the miscellaneous category. The tonnage of fertilizer material and mixed fertilizer sold in Connecticut is shown in Table 4.

Two types of variability affect fertilizer analysis and must be considered in judging deficiencies. The first is the variability among different batches of the same grade from a manufacturer. This variability can be noted in Table 1 by examining the analyses of the same grade from the same manufacturer. The second type of variability is between duplicate analyses of the same sample. The variability among duplicate analyses is shown in the statement: the mean difference between duplicates for nitrogen and phosphoric acid is about two-tenths percent and for potash about three-tenths percent.

Fertilizer samples are deemed deficient in any nutrient if the analysis is below the guarantee by more than the values established by the Association of American Feed Control Officials. Overall, 311 guarantees for nitrogen were made and 7.7% were deficient, 300 guarantees for phosphoric acid and 8.7% were deficient, and 299 guarantees for potash and 13.7% were deficient. In 1985 the percentages of deficiencies for nitrogen and phosphoric acid are lower than in 1984. For potash, the percentage of deficiencies is higher in 1985 than in 1984.

Analyses were performed by H. Kocaba, M. Pyles, M.A. Illig, E. Hickson, and J. Smart. Samples were collected by J. Chapman, J. Dippel, D. Nisely, and A. VanDyke under the direction of K. Veit. Fertilizer laws are administered by the Commissioner of Agriculture.

Lester Hankin
Chief, Analytical Chemistry

Table 1. Analysis of Individual Samples of Commercial Fertilizers.

Manufacturer, guarantee and brand	Nutrients found, %						Manufacturer, guarantee and brand	Nutrients found, %					
	N	P205	K20	N	P205	K20		N	P205	K20	N	P205	K20
05 01 01 Ortho Fish Emulsion Fert	5.6	1.4	1.8	5.3	9.6	5.6	22	08	24	Agrico Fertilizer	23.0	8.8	15.7-
05 01 05 Ortho Houseplant Food	5.5	10.6	5.1	6.0	10.6	8.6-	46	46	46	Agrico Urea	46.1		
05 10 05 Ortho Houseplant Food	5.5	10.6	5.1	5.4	15.2	5.5	02	04	03	Espoma Plant-Tone	5.37	5.7	3.2
05 10 10 Ortho Vegetable Garden Food	6.0	10.6	8.6-	5.0	14.7	5.0	04	06	04	Espoma Hollytone	4.6	9.2	3.7
05 15 05 Ortho Up-Start Root Stimulator	5.4	15.2	5.5	6.4	9.4	5.1	04	07	10	Espoma High Organic Tomato Food	5.3	10.7	13.3
05 15 05 Ortho Up-Start	5.0	14.7	5.0	6.7	17.8	6.5	04	07	10	Espoma Tomato Food	5.5	12.6	7.7-
06 09 05 Ortho Liq Afr Violet Food	6.4	9.4	5.1	8.7	11.9	4.7	06	02	01	Espoma Cotton Seed Meal	6.1	2.5	1.8
06 18 06 Ortho Tomato & Vegetable Food	6.7	17.8	6.5	11.3	8.4	7.9	<u>Estech, Inc.</u>						
08 12 04 Ortho Rose & Flower Food	8.7	11.9	4.7	12.0	8.3	7.6	05	10	05	Gro-Tone Plant Food	7.4	10.1	10.7
10 08 07 Ortho Fern & Ivy Food	9.0	9.0	9.0	10.5	13.7	8.9	05	10	05	Gro-Tone Plant Food	6.6	15.1	6.3
10 08 07 Ortho Evergreen & Azalea Food	11.1	7.1-	8.9	13.1	5.3	6.1	05	10	05	Gro-Tone Plant Food	5.7	13.9	6.6
10 10 10 Ortho Gen Purp Plant Food	15.0	10.5	10.5	13.1	5.3	6.1	05	10	05	Swift	21.9	5.9	
12 06 06 Ortho Ortho-Gro Liquid Plant Food	14.8	9.0	9.0	14.8	9.0	9.0	05	10	05	Perk-Up Plant Food	13.9	20.3	8.1
14 07 07 Ortho Evergreen, Tree & Shrub Fd	14.8	9.0	9.0	14.8	9.0	9.0	05	10	05	Red Steer	14.4	27.2	9.9
<u>Ciba-Geigy Corp.</u>			20	Spectrum Earth Care			15.4-	19.6	20.1	06	08	06	06
04 10 10 New Era Flowering Plant	4.9	9.0-	12.5	10	10	10	06	10	06	Gro-Tone Evergreen Food 30% Org N	7.7	8.0	5.6
05 01 01 New Era Fish Emulsion	5.8	1.8	1.4	10	10	10	06	10	06	Vigoro All Purpose	9.5	11.9	7.3
05 12 09 New Era Flowering Plant	5.5	13.0	10.2	15	15	15	06	10	06	Swift Lawn Weeder and Feeder	12.9	6.5	
06 12 06 New Era Solid Plant Food	7.8	12.9	8.9	15	15	15	06	10	06	Deerfield Lawn Food	15.2	12.6	5.3
07 15 08 New Era Plant Food	6.5	16.8	10.0	24	24	24	02	09	09	Gro-Tone Lawn Craft Turf Food	18.1	13.0	4.1
08 08 08 New Era Plant Food	8.5	7.4	9.6	24	24	24	03	10	03	Red Steer	19.4	13.6	14.4
11 15 20 New Era Plant Food Tablets	11.1	15.2	21.7	26	26	26	05	05	05	Red Steer	17.5	19.7	12.1-
12 06 06 New Era Solid Plant Food	14.7	0.3-	15.3	27	27	27	03	03	03	Par-Ex Weed and Feed	33.6	2.4	10.1
<u>Crop Production Services</u>			32	08			32	03	08	03	03	03	04.4
05 10 05 Agrico-Village Green	5.1	9.2-	4.7	4.8	9.5	5.1	<u>Paesy & Besthoff, Inc.</u>						
05 10 05 Agrico Village Green 50% Org N	10.1	17.3	5.1	13.9	11.4	14.5	06	01	01	P & B Cottonseed	6.4	2.8	
05 10 10 Agrico Fertilizer	9.0	13.9	11.4	8.2	22.2	14.5	45	45	45	F & B Urea Lawn Food	45.1		
05 10 10 Agrico	10	10	10	6.2	3.4	3.8-	45	45	45	F & B Urea Lawn Food	46.8		
06 03 06 Agrico Tobacco	9.5	5.8-	5.1-	9.5	5.8-	5.1-	<u>Fer-Mel Corp.</u>						
08 08 08 Agrico Fertilizer	17.9	12.6	3.6	8.0-	16.0	6.6	20	25	10	Per-Mel	17.8-		
10 06 04 Agrico Village Green	11.2	7.7	3.6	11.2	7.7	9.4	09	09	10	Fer-Mel Prem Lawn Food	37.5	6.8	8.8-
10 06 04 Agrico-Village Green 50% Org N	11.7	8.6-	9.4	11.7	17.8	11.0	12	04	08	Cen Purp Lawn & Garden			
10 10 10 Agrico	12.6	13.6	12.8	12.6	13.6	12.8	09	09	06	Holland Bulb Products	12.4	13.4	6.2
10 10 10 Agrico	18.4	29.3	10.3-	18.4	29.3	42.0	09	09	06	Holland Bulb Booster	15.1	13.9	4.4-
14 41 Agrico	15.4	42.0	7.4-	16.0	12.0	7.4-	<u>Green Charger Fert. Co.</u>						
15 10 10 Agrico Fertilizer	14.3	11.6	12.3	14.3	11.6	12.3	04	12	04	Hy-Trouss/Fiash Sales, Inc.	11.3	4.4	5.5
15 15 15 Agrico	17.3	15.1	15.1	19.5	22.1	15.0	05	05	05	African Violet Fert	5.0	5.5	1.4
15 15 15 Agrico	20.1	20.7	17.5-	20.1	20.7	17.5-	05	05	05	Mer-Made Fish Emulsion Plant Food	5.9	5.5	1.4
19 19 19 Agrico	19.0	20.0	11.7-	19.0	20.0	11.7-	05	10	05	Mer-Made Fish Emulsion Plant Food	4.4-	11.0	5.8

Manufacturer, guarantee and brand	Nutrients found, %			Manufacturer, guarantee and brand			Nutrients found, %		
	N	P205	K20	N	P205	K20	N	P205	K20
05 10 05 Old Fox Garden Food	5.1	8.9-	11.7	7.4	24.2	15.3	<u>Ross Daniels, Inc.</u>	16	Ross Gro-Stks/Frt-Orn Tree/Shrbs
05 10 10 Old Fox	14.1	12.1	17.6	11.2	10.2	15.5	<u>Ross Daniels, Inc.</u>	16	Ross Gro-Stakes
06 10 06 Old Fox Shrub & Tree Food	15.5	0.8	16	15.5	0.8	16	<u>Ross Daniels, Inc.</u>	16	Ross Gro For Young Trees
06 10 06 Old Fox Shrub & Tree Food	7.8	18.4	0.9	7.8	9.4	0.9	<u>Ross Daniels, Inc.</u>	16	Ross Gro-Stakes Evergreens
10 06 04 Old Fox Turf Grass 50% Org N	15.3	8.9	7.7	11.3	10.3	9.4	<u>Ross Daniels, Inc.</u>	16	Ross Gro-Stakes for Evergreens
10 06 04 Old Fox Turf Food 50% Org N	15.3	8.9	7.7	10.8	24.2	15.3	<u>Ross Daniels, Inc.</u>	16	Ross Gro-Stakes for Evergreens
10 08 10 Old Fox for Tobacco	12.4	12.5	6.6-	12.4	12.5	6.6-	<u>Ross Daniels, Inc.</u>	16	Ross Gro-Stks Evgr/Azal/Cam/Rhod
10 10 10 Old Fox	9.6	14.1-	10.9	10.9	14.1-	10.9	<u>Ross Daniels, Inc.</u>	16	Ross Gro-Stakes Trees & Shrubs
10 10 10 Old Fox	12.0	21.6	20.2	12.0	21.6	20.2	<u>Ross Daniels, Inc.</u>	16	Ross Gro-Stakes
10 12 02 08 Old Fox	12.1	2.2	10.7	12.1	2.2	10.7	<u>Schultz Co.</u>	15	Schultz Instant Liq Plant Food
15 15 15 Old Fox	15.8	12.6-	16.0	15.8	12.6-	16.0	<u>Schultz Co.</u>	15	Osmocote Controlled Release
16 09 10 Old Fox Blend	16.7-	9.3	12.5	16.7-	9.3	12.5	<u>Sierra Chem. Co.</u>	15	Schultz Instant Liq Plant Food
18 07 29 Old Fox Blend	16.7-	6.3-	45.5	18.1	13.9	17.2	<u>Sierra Chem. Co.</u>	15	Osmocote Controlled Release
18 11 17 Old Fox	20.1	8.1	9.9	20.1	8.1	9.9	<u>Sohio Chem. Co.</u>	15	Schultz Instant Liq Plant Food
20 04 08 Old Fox Green Gro 40% Org N	19.4-	9.0	30.7	19.4-	9.0	30.7	<u>Sohio Chem. Co.</u>	15	Osmocote Controlled Release
24 04 24 Old Fox Blend	5.2	7.0	6.4	5.2	7.0	6.4	<u>Sohio Chem. Co.</u>	15	Schultz Instant Liq Plant Food
4.59 5.62 6.20 Old Fox Custom	4.5	7.9	7.0	4.5	7.9	7.0	<u>Vistron</u>	46.1	Osmocote Controlled Release
4.64 4.41 6.27 Old Fox Custom	5.4	4.1-	5.4	5.4	4.1-	5.4	<u>Sterns Nurseries, Inc.</u>	15	Miracle Gro Plant Food
4.65 5.69 5.29 Old Fox Custom	5.0	6.5	6.7	5.0	6.5	6.7	<u>Sterns Nurseries, Inc.</u>	15	Miracle Gro Plant Food
4.70 4.47 5.36 Old Fox Custom	4.8	7.1	5.8	4.8	7.1	5.8	<u>Sterns Nurseries, Inc.</u>	15	Miracle Gro Plant Food
4.73 5.80 4.19 Old Fox Custom	5.1	5.4	5.4	5.1	5.4	5.4	<u>Sterns Nurseries, Inc.</u>	15	Miracle Gro Plant Food
4.76 3.27 5.42 Old Fox Custom	6.7	8.9	4.0	6.7	8.9	4.0	<u>Sterns Nurseries, Inc.</u>	15	Miracle Gro Tomatoes
4.88 2.38 4.32 Old Fox Custom	5.1	5.2	5.2	5.1	5.2	5.2	<u>Sterns Nurseries, Inc.</u>	15	Miracle Soil Acidifier & P1 Ed
4.95 3.39 3.33 Old Fox Custom	6.3-	6.8	8.9	6.3-	6.8	8.9	<u>Sudbury Lab</u>	44	Sudbury Potash
7.2 7.2 7.14 Old Fox Custom	20.5	20.7	20.4	20.5	20.7	20.4	<u>Sudbury Lab</u>	44	Sudbury Phosphorus
20 20 20 Parrot's Professional Formula	30.2	9.4	10.4	30.2	9.4	10.4	<u>Sudbury Lab</u>	44	Sudbury Nitrogen
30 10 10 Power-Gro Acidifier & Plant Food	1.4	1.4	1.4	1.4	1.4	1.4	<u>Unique Fertilizer, Inc.</u>	16	The Unique Feeder
<u>Parrot Agro Industries, Inc.</u>	15.7	31.6	13.8-	15.7	31.6	13.8-	<u>Universal Chemical Co., Inc.</u>	15	Miracle Gro Plant Food
15 30 15 Power-Gro Power Conc & Vit Nutr	1.2	2.1	1.2	1.2	2.1	1.2	<u>Universal Chemical Co., Inc.</u>	15	Miracle Gro Plant Food
20 20 20 Parrot's Professional Formula	4.3	2.1	2.1	4.3	2.1	2.1	<u>Universal Chemical Co., Inc.</u>	15	Miracle Gro Plant Food
30 10 10 Power-Gro Acidifier & Plant Food	4.3	3.7	5.7	4.3	3.7	5.7	<u>Universal Chemical Co., Inc.</u>	15	Miracle Gro Plant Food
<u>Plant Research Lab</u>	1.4	2.6	2.6	1.4	2.6	2.6	<u>Valagras, Inc.</u>	08	Valagras, Inc.
01 02 01 Oxygen Plus Plant Food	1.3	2.4	1.4	1.3	2.4	1.4	<u>Valagras, Inc.</u>	23	Valagras, Inc.
01 02 01 Oxygen Plus Plant Food Vit Nutr	1.2	2.1	2.1	1.2	2.1	2.1	<u>Valagras, Inc.</u>	12	Valagras, Inc.
01 04 02 Oxygen Plus Flowering Houseplant	1.5	4.2	2.1	1.5	4.2	2.1	<u>Valagras, Inc.</u>	12	Valagras, Inc.
04 04 04 Oxygen Plus Outdoor Cont P1 Fd	4.3	3.7	5.7	4.3	3.7	5.7	<u>Valagras, Inc.</u>	12	Valagras, Inc.
1.3 2.5 1.2 Oxygen Plus Indoor Plant Food	1.4	2.6	2.6	1.4	2.6	2.6	<u>Valagras, Inc.</u>	12	Valagras, Inc.
<u>Plantabbs Corp.</u>	18.4	6.5	13.7	18.4	6.5	13.7	<u>Valagras, Inc.</u>	10	Valagras, Inc.
08 06 12 Plantabbs Terrarium Plant Food	11.0	8.2	8.0	11.0	8.2	8.0	<u>Valagras, Inc.</u>	10	Valagras, Inc.
10 08 07 Rapid-Gro Liquid Houseplant Food	13.3	19.7	18.9	13.3	19.7	18.9	<u>Valagras, Inc.</u>	10	Valagras, Inc.
23 19 17 Rapid-Gro Plant Food	23.9	19.4	18.4	23.9	19.4	18.4	<u>Valagras, Inc.</u>	10	Valagras, Inc.
23 19 17 Rapid-Gro House Plant Food	22.9	20.5	18.3	22.9	20.5	18.3	<u>Valagras, Inc.</u>	10	Valagras, Inc.
23 19 17 Rapid-Gro House Plant Food	24.1	19.2	18.6	24.1	19.2	18.6	<u>Valagras, Inc.</u>	10	Valagras, Inc.
<u>W. R. Grace & Co.</u>	07	40	06	07	40	06	<u>W. R. Grace & Co.</u>	11	W. R. Grace & Co.
<u>Robert N. McClellan & Son, Inc.</u>	01	02	03	01	02	03	<u>Robert N. McClellan & Son, Inc.</u>	11	Robert N. McClellan & Son, Inc.

Manufacturer, guarantee and brand	Nutrients found, %				
	N	P205	K20		
10 30 20 Peters Prof Sol P1 Fd/Bloss Boost	11.1	31.5	22.5		
12 36 14 Peters Spec Sol P1 Fd/Afr Violet	12.3	40.5	13.2		
15 30 15 Peters Prof Sol P1 Fd/Houseplant	15.6	30.4	16.7		
15 30 15 Peters Pro Sol P1 Fd/Houseplant	15.4	30.1	17.7		
15 30 15 Peters Houseplant Food	10.0-	29.9	17.9		
17 06 06 Peters Pro Sol P1 Fd/Acid Grn	16.9	6.2	7.8		
18 18 18 Peters Prof Sol Plant Food	17.4	19.2	19.4		
20 20 20 Peters Prof Gen Purp	12.3-	17.1-	22.8		
21 07 07 Peters Spec Sol P1 Fd/Acid Spec	21.7	8.7	8.5		
30 10 10 Peters Professional Orchid	30.1	12.4	13.0		
30 10 10 Peters Prof Sol Plant Food	21.8-	12.0	12.9		
<u>Waterlizer</u> Div. of American Aqua-Tec.					
35 05 10 Waterlizer Lawn Food	35.7	5.5	11.6		
<u>Wegro</u> Div. of Old Ford Industries, Inc.					
07 08 05 XXX Rose Maker	8.6	10.8	5.1		
<u>WGM/Hydro</u>					
15.5 Vikingship Brand	14.8				
<u>Woolfolk</u> Chemical Works, Inc.					
14 14 14 Osmocote Foliage and Pot P1 Fd	14.2	14.3	15.1		

Table 2. Summary for Each Manufacturer of Number of Claims for Individual Plant Nutrients, Percentage of Claims Not Meeting Guarantee, and Average Percentage of Guarantee for Each Nutrient.

Company	Number Samples	Number of Claims			% Not Meeting Claim			Average % of Claim		
		N	P205	K20	N	P205	K20	N	P205	K20
A.H. Hoffman	1	1	1	1	0	0	0	130	108	122
Agino	1	1	0	0	0	—	—	102	—	—
Agri-Turf	1	1	1	1	0	0	100	105	158	87
Agrico	1	0	1	1	—	0	100	—	165	84
Agway	28	27	28	27	15	14	30	102	115	117
Allied	1	1	0	0	0	—	—	104	—	—
Anderson Peat	1	1	1	1	0	0	0	150	100	100
Andersons	1	1	1	1	0	0	0	110	98	127
Atlas Fish Fert.	3	3	3	3	0	0	0	109	157	193
Burnishine	1	1	1	1	0	0	0	83	95	100
Cadwell & Jones	33	33	32	32	9	28	19	108	97	99
Carefree	1	1	1	1	0	0	0	103	115	113
Charles C. Hart	2	2	2	2	0	0	0	121	123	104
Chevron	16	16	16	16	0	6	6	111	105	115
Ciba-Geigy	1	1	1	1	100	0	0	87	98	101
Clinton Nursery	8	8	8	8	0	25	0	113	100	142
Crop Production	23	23	21	22	4	14	32	125	136	97
Espoma	5	5	5	5	0	0	20	124	160	129
Estech	18	18	18	18	0	0	22	149	152	119
Faesy & Besthoff	3	3	1	1	0	0	0	104	280	180
Fer-Mel	2	2	1	2	50	0	50	120	136	119
Green Charger	1	1	1	1	100	0	0	69	123	176
Holland Bulb	2	2	2	2	0	0	50	153	152	88
Hy-Trous/Flash	7	7	7	7	14	0	0	102	103	126
Hyponex	7	7	7	7	0	0	0	113	126	122
International Minerals	1	1	1	0	0	0	—	106	102	—
International Spike	12	12	12	12	8	8	0	134	126	131
J. T. Baker	1	1	1	1	0	0	0	111	106	235
Kalium	1	0	0	1	—	—	0	—	—	102
Koos	1	1	1	1	0	0	0	132	118	282
Lebanon	20	20	20	19	5	0	15	112	115	109
Leeming/Pfizer	1	1	1	1	0	0	0	100	115	110
Lesco	1	1	1	1	0	0	0	98	128	103
Lofts	4	4	4	4	0	25	75	184	117	60
Marcon	1	1	1	1	100	0	0	64	96	109
Milwaukee	1	1	1	0	0	0	—	103	110	—
Nitrochem	1	1	0	0	0	—	—	102	—	—
Nor-Am	1	1	0	0	0	—	—	97	—	—
O. M. Scott	11	11	11	11	0	0	27	109	106	98
Old Fox	30	30	30	30	13	17	3	115	143	147
Parrot Agro	3	3	3	3	0	0	33	103	101	99
Plant Research	5	5	5	5	0	0	0	123	105	125
Plantabbs	1	1	1	1	0	0	0	230	108	114
Rapid-Gro	5	5	5	5	20	0	0	85	103	110
Robert N. McClellan	1	1	1	1	100	0	100	50	110	55
Ross Daniels	9	9	9	9	0	0	0	116	116	120
Schultz	1	1	1	1	0	100	0	105	94	109
Sierra	1	1	1	1	0	0	0	94	127	112
Sohio	1	1	0	0	0	—	—	100	—	—
Sterns Nurseries	4	4	4	4	25	0	0	98	106	106
Sudbury Lab	3	1	1	1	0	0	0	110	128	110
Unique Fertilizer	1	1	1	1	0	0	0	116	174	118
Universal	1	1	1	1	0	100	0	114	84	103
Valagra	9	9	8	8	11	13	63	115	114	83
W. R. Grace	12	12	12	12	25	8	0	94	106	115
Waterlizer/Amer. Aqua	1	1	1	1	0	0	0	102	110	116
Wegro/Old Ford	1	1	1	1	0	0	0	123	135	102
WGM/Hydro	1	1	0	0	0	—	—	96	—	—
Woolfolk	1	1	1	1	0	0	0	101	102	108

Table 3. Distribution of Mixed Fertilizer Sold in Connecticut July 1, 1984-June 30, 1985

Grade	Tons
05-10-05	1102
05-10-10	1015
10-05-05	38
10-06-04	2203
10-10-10	5735
10-20-10	591
15-08-12	702
15-10-05	2
15-10-10	1626
15-15-15	887
15-20-25	6
15-30-15	107
18-04-10	24
19-19-19	283
20-00-10	33
20-03-03	34
20-04-08	116
20-05-10	446
20-10-10	598
20-20-20	65
24-12-18	241
25-03-03	161
25-05-10	152
27-03-03	895
30-00-00	143
30-10-10	44
32-00-00	18
38-00-00	76
TOTAL	17343
MISCELLANEOUS	19737
GRAND TOTAL	37080

Table 4. Tonnage of Fertilizer Material and Mixed Fertilizers Sold in Connecticut July 1, 1984-June 30, 1985

COMMODITY	TONS
MULTINUTRIENT	
Ammoniated phosphate	1399
TOTAL	1399
CHEMICAL NITROGEN	
Ammonium nitrate	125
Ammonium sulfate	52
Calcium nitrate	116
Nitrate of soda	6
Nitrogen solutions	1788
Other nitrogen materials	3
Urea	781
Ureaform	4
TOTAL	2875
PHOSPHATES	
Bone meal, raw	30
Bone meal, steamed	78
Phosphate rock	5
Superphosphate 18%	1
Superphosphate 20%	21
Superphosphate 40%	420
Superphosphate 46%	264
Other phosphate materials	16
TOTAL	835
POTASH	
Muriate of potash 60%	4031
Potassium carbonate	7
Potassium nitrate	43
Sulfate of potash	6
Sulfate of potash/magnesium	105
TOTAL	4192
NATURAL ORGANICS	
Caster pomace	75
Cottonseed meal	83
Dried blood	5
Dried manure- cattle	3620
Gelatin	8
Greensand	2
Manure, composted	1689
Other organics	1
TOTAL	5483
SECONDARY AND MICRONUTRIENTS	
Aluminum sulfate	2
Borax	1
Copper sulfate	17
Land plaster(gypsum)	39
Iron	2
Magnesium oxide	1
Sulfur	2
Zinc	1
Miscellaneous	1
TOTAL	66
TOTAL-COMMODITIES	14850
TOTAL-COMMERCIAL FERTILIZERS	37080
GRAND TOTAL	51930



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